

## PHASE DIGITIZER FOR SIGNALS IN IMPERFECT QUADRATURE

### Abstract

5           A method of digitizing first and second signals in imperfect quadrature  
for obtaining characteristic parameters of the first signal comprises providing a  
first signal, the first signal comprising an inphase quasi-sinusoidal analog signal.  
The method comprises providing a second signal, the second signal comprising a  
quadrature signal. The method comprises digitizing the first signal at a sampling  
10 rate, thereby generating a first plurality of sets of digital signal waveform  
samples and digitizing the second signal at the sampling rate, thereby generating  
a second plurality of sets of digital signal waveform samples. The method  
comprises digitally processing successive first and second sets of digital signal  
waveform samples to generate continually updated digital characteristic  
15 parameters representing a characteristic behavior of the first signal.